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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 7

Complete if Known	
Application Number	10/628,525
Filing Date	July 28, 2003
First Named Inventor	Peter L. Keeling
Art Unit	1644
Examiner Name	Not yet assigned
Attorney Docket Number	15056-4

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number / Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SWL	A	US- 4,859,377	08-22-1983	Shasha et al.	
	B	US- 5,137,819	08-11-1992	Kilburn et al.	
	C	US- 5,202,247	04-13-1993	Kilburn et al.	
	D	US- 5,302,523	04-12-1994	Coffee et al.	
	E	US- 5,349,123	09-20-1994	Shewmaker et al.	
	F	US- 5,512,459	04-30-1996	Wagner et al.	
	G	US- 5,635,599	06-03-1997	Pastan et al.	
	H	US- 5,643,756	07-01-1997	Kayman et al.	
SWL	I	US- 5,648,244	07-15-1997	Kuliopulos et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document / Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	3/14/05

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Sheet 2 of 7

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Application Number	10/628,525
Filing Date	July 28, 2003
First Named Inventor	Peer L. Keeling
Art Unit	6144
Examiner Name	Not yet assigned
Attorney Docket Number	15056-4

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
SWL	J	BABA, T. et al., "Identification, cDNA Cloning, and Gene Expression of Soluble Starch Synthase in Rice (Oryza sativa L.) Immature Seeds" (1993), Plant Physiol. 103:565-573	
	K	BABA, T. et al "Sequence Conservation of the Catalytic Regions of Amylolytic Enzymes in Maize Branching Enzyme-I" (1991) Biochem. Biophys. Res. Comm. 181(1):87-94	
	L	BHATTACHARYYA, M. et al. "The Importance of Starch Biosynthesis in the Wrinkled Seed Shape Character of Peas Studied by Mendel" (1993) Plant Mol. Biol. 22:525-531	
	M	BOYER, C. et al. "Multiple Forms of (1 - 4)-a-D-GLUCAN-6-Glycosyl Transferase from Development Zea Mays L. Kernels" (1978) Carbohydrate Research 61:321-334	
	N	BROEKHUIJSEN, M. et al. "Secretion of heterologogous proteins by Aspergillus niger: Production of active..." (1993) Journal of Biotechnology 31:135-145	
	O	BROWNER, M. et al. "Human muscle glycogen synthase cDNA sequence: A negatively charged protein with an asymmetric char..." (3/1989) Proc. Natl. Acad. Sci. USA 86:1443-1447	
	P	CHEN, L et al. "Improved Adsorption to Starch of a B-Galactosidase Fusion Protein Containing the Starch-Binding Domain from Aspergillus..." (1991) Biotechnol. Prog. 7:225-229	
	Q	DANG, P. et al. "Maize Leaf and Kernel Starch Synthases and Starch Branching Enzymes" (1988) Phytochemistry 27(5):1255-1259	
	S	DENYER, K. et al. "Identification of multiple isoforms of soluble and granule-bound starch synthase in development wheat endosperm" (1995) Plant 196:256-265	
SWL	T	DENYER, K. et al. "The purification and characterisation of the two formsof soluble starch synthase from developing pea embryos" (1992) Planta 186:609-617	

Examiner Signature		Date Considered	3/14/05

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Art Unit	6144
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Attorney Docket Number	15056-4

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SWL	U	DENYER, K. et al. "Soluble isoforms of starch synthase and starch-branching enzyme also occur within starch granules in developing..." (1993) The Plant Journal 4(1):191-198	
	V	DRY, I. et al. "Characterization of cDNAs encoding two isoforms of granule-bound starch synthase which show differential expression..." (1992) The Plant Journal 2(2):193-202	
	W	EDWARDS, A. et al. "Evidence that a 77-Kilodalton Protein from the Starch of Pea Embryos Is an Isoform of Starch Synthase That Is Both..." (1996) Plant Physiol. 112:89-97	
	X	FRYDMAN, R. et al. "Soluble Enzymes Related to Starch Synthesis" (1964) Biochem. and Biophys. Res. Comm. 17(4):407-411	
	Y	FURUKAWA, K. et al."Role of the Conserved Lys-X-Gly-Gly Sequence at the ADP-glucose-binding Site in..." (11/15/1993) The Journal of Biological Chemistry 268(32):23837-23842	
	Z	FURUKAWA, K. et al. "Identification of Lysine 15 at the Active Site in Escherichia coli Glycogen Synthase" (2/5/1990) The Journal of Biological Chemistry 265(4):2086-2090	
	AA	GODDIJN, O. et al. "Plants as bioreactors" (9/1995) Trends in Biotechnology 13(9):379-387	
	AB	HOVENKAMP-HERMELINK, J. et al. "Isolation of an amylose-free starch mutant of the potato (Solanum tuberosum L.)" (1987) Theor. Appl. Genet. 75:217-221	
	AC	JENNER, C. et al. "Thermal Characteristics of Soluble Starch Synthase from Wheat Endosperm" (1995) Aust. J. Plant. Physiol. 22:703-709	
SWL	AD	KEELING, P. et al. "Effect of Temperature on Enzymes in the Pathway of Starch Biosynthesis in Developing Wheat and Maize Grain" (1994) Aust. J. Plant. Physiol. 21:807-827	

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Sheet 4 of 7

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Filing Date	July 28, 2003
First Named Inventor	Peer L. Keeling
Art Unit	6144
Examiner Name	Not yet assigned
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
SNL	AE	KEELING, P. et al. "Elevated temperature reduces starch deposition in wheat endosperm by reducing the activity of soluble starch synthase" (1993) Planta 191:342-348	
	AF	KIEL, J. et al. "Molecular cloning and nucleotide sequence of the glycogen branching enzyme gene (glgB) from Bacillus..." (1991) Mol. Gen. Genet. 230:136-144	
	AG	KIEL, J. et al. "Cloning and expression of thebranching enzyme gene (glgB) from thecyanobacterium Synechococcus sp. PCC7942 in Escherichia coli" (1989) Gen. 78:9-17	
	AH	KIRIHARA, J. et al. "Isolation and sequence of a gene encoding a methionine-rich 10-kDa zein protein from maize" (1988) Gen. 71:359-370	
	AI	KOBMANN, J. et al. "Cloning and expression anaylsis of a potato cDNA that encodes branching enzyme: evidence for co-expression of starch..." (1991) Mol. Gen. Genet. 230:39-44	
	AJ	KUMAR, A. et al. "Biosynthesis of Bacterial Glycogen" (12/5/1986) The Journal of Biological Chemistry, 261(34):16256-16259	
	AK	KUSNADI, A. et al. "Functional starch-binding domain of Aspergillus glucoamylase I in Escherichia coli" (1993) Gene 127:193-197	
	AL	LEUNG, P. et al. "Cloning and Expression of the Escherichia coli glgC Gene from a Mutant Containing an ADPglucose..." (7/1986) J. of Bacteriology, 167(1):82-88	
	AM	MCCORMICK, M. et al. "Purification and S-Tag detection of CBD fusion proteins" (1997) inNovations 7:12-15	
SNL	AN	MACDONALD, F. et al. "Partial Purification and Characterization of Granule-Bound Starch Synthases from Normal and Waxy Maize" (1985) Plant Physiol. 8:849-852	

Examiner Signature		Date Considered	3/14/05

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Sheet 5 of 7

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First Named Inventor	Peer L. Keeling
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SwL	AO	MACDONALD, F. et al. "Solubilization of the Starch-Granule-Bound Starch Synthase of Normal Maize Kernels" (1983) Plant Physiol. 73:175-178	
	AP	MARSHALL, J. et al. "Identification of the Major Starch Synthase in theSoluble Fraction of Potato Tubers" (7/1996) the Plant Cell 8:1121-1135	
	AQ	MATSUMOTO, A. et al. "A Kinetic Study of the Interactioin between Glycogen and Neurospora crassa Branching Enzyme" (1990) J. Biochem. 107:123-126	
	AR	MONSMA, A. et al. "New pBAC transfer plasmids for baculovirus expression of CBD fusion proteins" (1997) InNovations 7:8-11	
	AS	MONSMA, A. et al. "BacVector-3000: An engineered baculovirus designed for greater protein stability" (1997) InNovations 7:16-24	
	AT	MU, C. et al. "Association of a 76 kDa polypeptide with soluble starch synthase I activity in maize (cv B73) endosperm" (1994) The Plant Journal 6(2):151-159	
	AU	MU-FORSTER, C. et al. "Physical Association of Starch Biosynthetic Enzymes with Starch Granules of Maize Endosperm" (1996) Plant Physiol. 111:821-829	
	AV	NAKAMURA, Y. et al. "Nucleotide Sequence of a cDNA Encoding Starch-Branching Enzyme, or Q-Enzyme I, from Rice Endosperm" (1992) Plant Physiol 99:1265-1266	
	AW	NAKAMURA, Y. et al. "Purification of two forms of starch branching enzyme (Q-enzyme) from developing rice endosperm" (1992) Physiologia Plantarum 84:329-335	
SwL	AX	NOVY, R. et al. "New pET expression vectors generate fusion proteins with cellulose binding domains" (1981) inNovations 7:4-7	

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Sheet 6 of 7

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Application Number	10/628,525
Filing Date	July 28, 2003
First Named Inventor	Peer L. Keeling
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SWL	AY	OKITA, T. et al. "Biosynthesis of Bacterial Glycogen" (7/10/1981) The Journal of Biological Chemistry 256(13):6944-6952	
	AZ	POLLOCK, C. et al. "The Citrate-Stimulated Starch Synthase of Starchy Maize Kernels: Purification and Properties" (1980) Archives of Biochemistry and Biophysics 204(2):578-58	
	BA	ROWEN, D. et al. "GLC3 and GHA1 of Saccharomyces cerevisiae Are Allelic and Encode the glycogen Branching Enzyme" (1/1992) Molecular and Cellular Biology 12(1):22-29	
	BB	SALEHUZZAMAN, S. et al. "Cloning, partial sequencing and expression of a cDNA coding for branching enzyme in cassava" (1992) Plant Molecular Biology 20:809-819	
	BC	SHIMADA, H. "Antisense regulation of the rice waxy gene expression using a PCR-amplified fragment of the rice genome reduces..." (1993) Theor. Appl. Genet. 86:665-672	
	BD	SHURE, M. et al. "Molecular Identification and Isolation of the Waxy Locus in Maize" (11/1983) Cell 35:225-233	
	BE	SMITH, A. "Major differences in isoforms of starch-branching enzyme between developing embryos of round- and wrinkled-seeded peas (Pisum sativum..." (1988) Planta 175:270-279	
	BF	SHOSEYOV, O. et al. "Cellulose binding domains - A novel fusion technology for efficient, low cost purification and immobilization of..." (8/1997) InNovations 7:1-3	
	BG	SINGH, B. et al. "Starch Branching Enzymes from Maize" (1985) Plant Physiol. 79:34-40	
SWL	BH	SVENSSON, B. et al. "Sequence homology between putative raw-starch binding domains from different starch-degrading enzymes" (1989) Biochem. J. 264:309-311	

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SwL	BI	TAKAHASHI, T. et al. "Different Behavior towards Raw Starch of Three Forms of Glucoamylase from a Rhizopus Sp." (1985) J. Biochem. 98:663-671	
	BJ	TSAI, C. "The Function of the Waxy Locus in Starch synthesis in Maize Endosperm" (1974) Biochemical Genetics (11(2):83-96	
	BK	TYYNELA, J. et al. "An analysis of soluble starch synthase isozymes from the developing grains of normal and shx cv. Bomi Barley..." (1993) Physiologia Plantarum 89:835-841	
	BL	VALVEKENS, D. et al. "Agrobacterium tumefaciens-mediated transformation of Arabidopsis thaliana root explants by using..." (8/1988) Proc. Natl. Acad. Sci. USA 85:5536-5540	
	BM	VAN DER LEIJ, F. et al. "Complementation of the amylose-free starch mutant of potato (Solanum tuberosum.) by the gene encoding..." (1991) Theor. Appl. Genet. 82:289-295	
	BN	VISSER, R. et al. "Inhibition of the expression fo the gene for granule-bound starch synthase in potato by antisense constructs" (1991) Mol. Gen. Genet. 225:289-296	
	BO	VISSER, R. et al. "Molecular Cloning and Partial Characterization of the Gene for Granule-bound Starch Synthase from a Wildtype and an..." (1989) Plant Science 64:185-192	
	BP	VON HEIJNE, G. et al. "CHLPEP - A Database of Chloroplast Transit Peptides" (1991) Plant Molecular Biology Reporter 9(2):104-126	
	BQ	VOS-SHEPERKEUTER, G. et al. "Immunological Comparison of the Starch Branching Enzymes from Potato Tubers and Maize Kernels" (1989) Plant Physiol 90:75-84	
SwL	BR	ZHANG, W. et al. "Primary structure of rabbit skeletal muscle glycogen synthase deduced from cDNA clones" (1989) The BASEB Journal 3:2532-2536	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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